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By WILLOUGHBY SMITH.

In my presidential address, which I had the pleasure of reading before this society at our first meeting this year, I called attention, somewhat hurriedly, to the results of a few of my experiments on induction, and at the same time expressed a hope that at a future date I might be able to bring them more prominently before you. That date has now arrived, and my endeavor this evening will be to demonstrate to you by actual experiment some of what I consider the most important results obtained. My desire is that all

Soon after the discovery by Oersted just referred to, Faraday, with the care and ability manifest in all his experiments, showed that when an intermittent current of electricity is passing along a wire it induces a current in any wire forming a complete circuit and placed parallel to it, and that if the two wires were made into two helices and placed parallel to each other the effect was more marked. This Faraday designated "Volta-electric induction," and it is with this kind of induction I wish to engage your attention this evening; for it is a phenomenon which presents some of the most interesting and important facts in electrical science.

PLATE 7. present should see these results, and with that view I will try when practicable to use a mirror reflecting galvanometer instead of a telephone. All who have been accustomed to the use of reflecting galvanometers will readily understand the difficulty, on account of its delicacy, of doing so where no special arrangements a reprovided for its use; but perhaps with a little indulgence on your part and patience on mine the experiments may be brought to a successful issue.

Reliable records ox ten ding over hundreds of years show clearly with what energy and perseverance scientific men in every civilized part of the world have endeavored to wrest from nature the secret of what is termed her "phenomena of magnetism," and, as is invariably the case under similar circumstances, the results of the experiments and reasoning of some have far surpassed those of others in advancing our knowledge. For instance, the experimental philosophers in many branches of science were groping as it were in darkness until the brilliant light of Newton's genius illumined their path. Although, perhaps, I should not be justified in comparing Oersted with Newton, yet he also discovered what are termed "new" laws of nature, in a manner at ouce precise, profound, and which opened a new field of research to many of research to many of research to many of the time of that time, who were soon en-PLATE 3. ZINC PERCENTAGES 60 50 40 Pm. L Branni S. who were soon en-gaged in experi-

VOLTA-ELECTRIC INDUCTION.

Here are two flat spirals of silk-covered copper wire suspended a c p a rately, spider-web fashion, in wooden frames marked respectively A and B. The one marked A is so connected that reversals at any desired speed per minute from a battery of one or more cells can be p assed through it. The one marked B is so connected to the galvanometer and a connected to the galvanometer and a reverser as to show the deflection caused by the induced currents, which are momentary in duration, and in the galvanometer circuit all on the same side of zero, for as the battery current on zero, for as the onzery current on
making contact produces an induced
current in the reverse direction to
itself, but in the
same direction on
breaking the contact, of course the
one would neutralize the other, and
the galvanometer
would not be affected; the galvanometer
would not be affected; the galvanometer connections are
therefore reversed
with each reversal
of the battery current, and by that
means the induced
currents are, as you
perceive, all in the
same direction and
produce a steady
deflection. The
connections are as
shown on the sheet
before you marked
1, which I think
requires no further
explanation.

Before proceeding, please to bear
in mind the fact
that the inductive
effects vary inversely as the square of
the distance between the two spirais, when parallel
to each other; and
that the induced
current in B is proportional to the
strength of the cur-

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written and said as to the best means to secure conductors carrying currents of very low tension, such as telephone circuits, from being influenced by induction from conductors in their immediate vicinity employed in carrying currents of comparatively very high tension, such as the ordinary telegraph wires. Covering the insulated wires with one or other of the various metals has not only been suggested but said to have been actually employed with marked success. Now, it will found that a thin sheet of any known metal will in no appreciable way interrupt the inductive lines of force passing between two flat spirals; that being so, it is difficult to understand how inductive effects are influenced by a metal covering as described.

Telegraph engineers and electricians have done much toward accomplishing the successful working of our present railway system, but still there is much scope for improvements in the signaling arrangements. In forgy weather the system now adopted is comparatively useless, and resource has to be had at such times to the dangerous and somewhat clumsy method of signaling by means of detonating charges placed upon the rails. Now, it has occurred to me that volta induction might be employed with advantage in various ways for signaling purposes. For example, one or more wire spirals could be fixed between the rails at any convenient distance from the signaling station, so that when necessary intermittent currents could be sent through the spirals; and another spiral could be fixed beneath the engine or guard's van, and connected to one or more telephones placed near those in charge of the train. Then as the train passed over the fixed spiral the sound given out by the transmitter would be loudly reproduced by the telephone and indicate by its character the signal intended.

One of my experiments in this direction will perhaps better illustrate my meaning. The large spiral was connected in circuit with twelve Lechnobe cells and the two make and break transmitter could be switched into circuit w

ON TELPHERAGE.*

By Professor Fleeming Jenkin, LL.D., F.R.S.

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"The transmission of vehicles by electricity to a distance, independently of any control exercised from the vehicle, I will call Telpherage." These words are quoted from my first patent relating to this subject. The word should, by the ordinary rules of derivation, be telphorage: but as this word sounds badly to my ear, I ventured to adopt such a modified form as constant usage in England for a few centuries might have produced, and I was the more ready to trust to my ear in the matter because the word telpher relieves us from the confusion which might arise between telephore and telephone, when written.

I have been encouraged to choose telpherage as the subject of my address by the fact that a public exhibition of a telpher line, with trains running on it, will be made this afternoon, for the first time.

You are, of course, all aware that electrical railways have been run, and are running with success in several places. Their introduction has been chiefly due to the energy and invention of Messrs. Siemens. I do not doubt of their success and great extension in the future—but when considering the earliest examples of these railways in the spring of last year, it occurred to me that in simply adapting electric motors to the old form of railway and rolling stock, invent ors had not gone far enough back. George Stephenson said that the railway and locomotive were two parts of one machine, and the inference seemed to follow that when electric motors were to be employed a new form of road and a new type of train would be desirable.

When using steam, we can produce the power most economically in large engines, and we can control the power most effectually and most cheaply when so produced. A separate steam engine to each carriage, with its own stoker and driver, could not compete with the large locomotive and heavy train; but these imply a strong and costly road and permanent way. No mechanical method of distributing power, so as to pull trains along at

the distribution of power, the problem requires reconsideration.

With the help of an electric current as the transmitter of power, we can draw off, as it were, one, two, or three horse-power from a hundred different points of a conductor many miles long, with as much case as we can obtain 100 or 200 horse-power at any one point. We can cut off the power from any single motor by the mere break of contact between two pieces of metal; we can restore the power by merely letting the two pieces of metal touch; we can make these changes by electro magnets with the rapidity of thought, and we can deal as we piease with each of one hundred motors without sensibly affecting the others. These considerations led me to conclude, in the first place, that when using electricity we might with advantage subdivide the weight to be carried, distributing the load among many light vehicles following each other in an almost continuous stream, instead of concentrating the load in heavy trains widely spaced, as in our actual railways. The change in the distribution of the load would allow us to adopt a cheap, light form of load. The wide distribution of weight entails many small trains in substitution for a single heavy train; these small trains could not be economically run if a separate driver were re-

quired for each. But, as I bave already pointed out, electricity not only facilitates the distribution of power, but gives a ready means of controlling that power. Our light, continuous stream of trains can, therefore, be worked automatically, or managed independently of any guard or driver accompanying the train—in other words, I could arrange a self-acting block for preventing collisions. Next came the question, what would be the best form of substructure for the new mode of conveyance? Suspended rods or ropes, at a considerable height, appeared to me to have great advantages over any road on the level of the ground; the suspended rods also seemed superior to any stiff form of rail or girder supports would be easy; they could cross the country with no bridges or earth-works; they would remove the electrical conductor to a safe distance from men and cattle; cheap small rods employed as so many light suspension bridges would support in the aggregate a large weight. Moreover, I consider that a single rod or rail would present great advantages over any double rail system, provided any suitable means could be devised for driving a train along a single track. (Up to that time two conductors had hurriably been used.) It also seemed desirable that the metal rod bearing the train should also convey the current driving it. Lines such as I contemplated would not impede cultivation nor interfere with fencing. Ground need not be purchased for their erection. Mere wayleaves would be sufficient, as in the case of telegraphs. My ideas had reached this point in the spring of 1889, and I had devised some means for carrying them into effect when I read the account of the electrical railway exhibited by Professors Ayrton and Perry. In connection with this railway they had contrived means rendering the oniro of the velocies independent of the estimate of light, evenly spaced trains, with no drivers or guards. I saw, moreover, that the development of the system I had in view would be a severe tax on my time and energy; also that i

sulated from each other. Thus the train, wherever it stands, bridges a gap separating the insulated from the uninsulated section. The insulated sections are supplied with electricity from a dynamo driven by a stationary engine, and the current passing from the Insulated section to the uninsulated section through the motor drives the locomotive. The actual line is quite short, and can only show two trains, one on the up and one on the down line; but with sufficient power at the station any number of trains could be driven in a continuous stream on each line. The appearance is that of a line of buckets running along a single telegraph wire of large size. A block system is devised and partly made, but is not yet erected. It differs from the earlier proposals in having no working parts on the line. This system of propulsion is called by us the Cross Over Paraliel Arc. Other systems of supplying the currents, devised both by Professors Ayrton and Perry and myself, will be tried on lines now being erected; but that just described gives good results. The motors employed in the locomotives were invented by Messra. Ayrton and Perry. They are believed to have the special advantage of giving a larger power for a given weight than any others. One weighing 99 the, gave 1½ horse-power in some tests lately made. One weighing 16 lb. gave 0.41 horse-power.

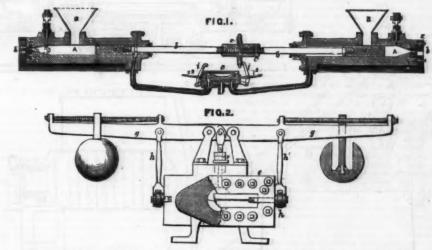
No scientific experiments have yet been made on the work-

any others. One weighing we to person a some tests lately made. One weighing 36 lb. gave 0.41 horse-power.

No scientific experiments have yet been made on the working of the line, and matters are not yet ripe for this—but we know that we can erect a cheap and simple permanent way, which will convey a useful load of say 15 cwt. on every alternate span of 130 feet. This corresponds to 134 tona permite, which, running at five miles per hour, would convey 92½ tons of goods per hour. Thus if we work for 20 hours, the line will convey 1850 tons of goods each way per diem, which seems a very fair performance for an inch rope. The arrange ment of the line with only one rod instead of two ralls diminishes friction very greatly. The carriages run as light as bloycles. The same peculiarity allows very sharp curves to be taken, but I am without experimental tests as yet of the limit in this respect. Further, we now know that we can insulate the line satisfactorily, even if very high potentials come to be employed. The grip of the locomotive is admirable and almost frictionless, the gear is silent and runs very easily. It is suited for the highest speeds, and this is very necessary, as the motors may with advantage, run at 2,000 revolutions per minute.

MACHINE FOR MAKING ELECTRIC LIGHT CARBONS.

ONE of the hinderances to the production of a regular and steady light in electric illumination is the absence of perfect



MACHINE FOR MAKING ELECTRIC LIGHT CARBONS.

ests. This company owns all our inventions in respect of electric locomotion, and the line shown in action to-day has been erected by this company on the estate of the chairman—Mr. Mariborough R. Pryor, of We-ton. Since the summer of last year, and more especially since the formation of the company this spring, much time and thought has been spent in cintorating details. We are still far from the cut.

Neverther of the company this spring, much time and thought has been spent in cintorating details. We are still far from the cut.

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Neverther of the company that the company that the company that the company the cut.

The line at Weston consist of a series of posts, 60 ft. apart, with two lines of rods or ropes, supported by cross-leads on the posts. Each of these lines carries a train; one in fact is the up line, and the other the down line. Square steel rods, round steel rods, and steel wire ropes are all in course of trial. The round steel rod is my favorie road at present. The line is divided into acctions of 130 ft. or two spans, and ach each rection is insulated from its neighbor. The rod or rope is at the post supported by crass-from soldies, curved in a vertical plane, so as to facilitate the passage of the wheels over the point of support. Each alternate section is insulated from the ground; all the insulated sections are in electrical from the ground is all the insulated sections are in electrical from the ground rection in the company of the curbon is also below the line from some or from two years, as a to clear the or support of the curbon is section. It consists of a series of seven buckets and a locandity of the cut. The first of the company of the curbon is also below the line from the company of the curbon is section. It consists of a series of seven buckets and a locandity even provided to the series

^{*} Introductory address delivered to the Class of Engineering, University of Edinburgh, October 20. 1983.

are struck by the disk wheel or regulator, the guillotine is moved back and replaced over the openings of the dies, ready for the next charge, as shown. The plungers are operated by hydraulic, steam, compressed air, or other power, the inlet and outlet of such a pressure being regulated by a valve, an example of which is shown at Fig. 1, and provided with the tappet levers, if, hinged to the valve chest, C, as shown, and attached to spindles, if operating the slide valves, and struck alternately at the end of each stroke, thus operating the valves and the guillotine connections, if and if. The front ends of the cylinders may be placed at an angle for the more convenient delivery of the moulded articles.—Fron.

NEW ELECTRIC BATTERY LIGHTS.

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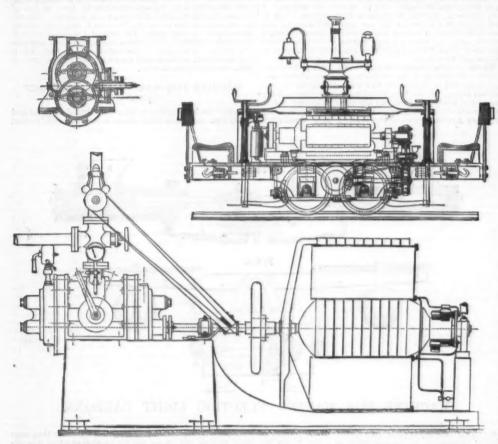
There has lately been held, at No. 31 Lombard Street, London, a private exhibition of the Holmes and Burke primary galvanic battery. The chief object of the display was to demonstrate its suitability for the lighting of railway trains, but at the same time means were provided to show it in connection with ordinary domestic illumination, as it is evident that a battery will serve equally as well for the latter as for the former purpose. Already the great Northern express leaving London at 5.30 P.M. is lighted by this means, and satisfactory experiments have been made upon the Southwestern line, while the inventors give a long list of other companies to which experimental plant is to be supplied. The battery shown, in Lombard Street consisted of fifteen cells arranged in three boxes of five cells each. Each box measured about 18 in. by 12 in. by 10 in., and weighed from 75 lb. to 100 lb. The electromotive force of each cell was 18 volts and its internal resistance from \$\frac{1}{2}\$ to \$\frac{1}{2}\$ of an ohm, consequently the battery exhibited had, under the must favorable circumstances, a difference of potential of 27 volts at its poles, and a resistance for 0.3 ohm.

Mr Holmes admits his statement of the consumption of sine does not agree with what might be theoretically expected but he bases it upon the result of his experiments in the Pullman train, which place the cost at one farthing per hour per light. At the same time he does not profess that the battery can compete in the matter of cost with mechanically generated currents on a large scale, but he offers it as a convenient means of obtaining the electric light in places where a steam engine or a gas engine is inadmissible, as in a private house, and where the cost of driving a dynamo machine is raised abnormally high by reason of a special attendant having to be paid to look after it.

But he has another scheme for the reduction of the cost, to which we have not yet alluded, and of which we can say but little, as the details are not at precent available for publication. The battery gives off fumes which can be condensed into a nitrogenous substance, valuable, it is stated, as a manure, while the zinc salts in the spent liquid can be recovered and returned to useful purposes. How far this is practicable it is at present impossible to say, but at any rate the idea represents a step in the right direction, and if the electricians can follow the example of the gas manufacturers and obtain a revenue from the residuals of galvanic batteries, they will greatly im prove their commercial position. There is nothing impossible in the idea, and neither is it altogether novel, although the way of carrying it out may be. In 1848, Staite, one of the early enthusiasts in electric lighting, patented a series of batteries from which he proposed to recover sulphate, nitrate, and chloride of zinc, but we never heard that he obtained any success.

NEW ELECTRIC RAILWAY.

The original electric railway laid down by Messrs, Siemens and Halske at Berlin seems likely to be the parent of many others. One of the most recent is the underground electric



THE SIEMENS ELECTRIC RAILWAY AT ZANKERODA MINES.

When connected to a group of ten Swan lamps of five candle power, requiring a difference of potential of 30 volts, it raised them to vivid incandescence, considerably above their nominal capacity, but it failed to supply eighteen lamps of the same kind satisfactorily, showing that its working capacity lay somewhere between the two. A more powerful lamp is used in the railway carriages, but as there was only one erected it was impossible to judge of the number that a battery of the size shown would feed. Engineering mays the trial, however, demonstrated that great quantities of current were being continuously evolved, and if, as we understood, the production can be maintained constant for about twenty-four hours without attention, the new battery marks a distinct step in this kind of electric lighting. Of the construction of the battery we unfortunately can say but little, as the patents are not yet completed, but we may state that the solid elements are sinc and carbon, and that the novelty lies in the liquid, and in the ingenious arrangement for supplying and withdrawing it.

Ordinarily one charge of liquid will serve for twenty-four hours' working, but this, of course, is entirely determined by the space provided for it. It is sold at sevenpence a gallon, and each gallon is sufficient, we are informed, to drive a cell while it generates 800 ampere hours of ourrent, or, taking the electromotive force at 1-8 volts, it represents 800×1-8

=1 98 home-power hours. The cost of the zinc

746
tated to be 35 per cent. of that of the fluid, although it is scult to see how this can be, for one horse-power requires consumption of 895 2 grammes of sine per hour, or 1 96 and this at 181, per ton, would cost 1 98 pence per tod, or 3-8 pence per horse-power hour. This added to 3-6 see for the fluid, would give a tetal of 7-4 pence per an-power per hour, and assuming twanty lamps of ten dile power to be fed per horse-power, the cost would be ut one-third of a pency per hour per lamp.

line laid down by the firm in the mines of Zankeroda in Saxony. An account of this railway has appeared in Glaser's
Annales, together with drawings of the engine, which we
are able to reproduce. They are derived from a paper by
Herr Fischer, read on the 19th December. 1882, before the
Electro-Technical Union of Germany. The line in question
is 700 meters long—770 yards—and has two lines of way. It
lies 370 meters—300 yards—helow the surface of the ground.
It is worked by an electric locomotive, bauling ten wagons
at a speed of 12 kilometers, or 74 miles per hour. The
total weight drawn is eight tons. The gauge is a narrow
one, so that the locomotive, can be made of small dimensions.
Its total length between the buffer heads is 2 48 meters; its
height 1 04 meters; breadth 0 8 meter; diameter of wheels, 0 34
meter. From the rail head to the center of the buffers is a
height of 0 675 meter; and the total weight is only 1550 kilogrammes, or say 3,400 lb. We give a longitudinal section
through the locomotive. It will be seen that there is a seat
at each end for the driver, so that he can always look forwards, whichever way the engine may be running. The
arrangements for connection with the electric current are
very simple. The current is generated by a dynamo machine fixed outside, the mine, and run by a small rotary steam
engine, shown in section and elevation, at a speed of 900 revolutions per minute. The current passes through a cable
down the shaft to a T-iron fixed to the side of the heading.
On this T-iron slide contact pieces which are connected with
the electric engine by leading wires. The driver by turning
a handle can move his engine backward or forward at will.
The whole arrangement has worked extremely well, and it
is stated that the locomotive, in other words, could easily
do double its present work; in other words, could haal 16
to 16 tons of train load at a speed of seven miles an hour.
The arrangements for the dynamo machine on the engine,
and its connection with the wheels, are much the s

THE EARLIEST GAS-ENGINE

THE EARLIEST VALS-ERSHINE.

LERON, in the certificate dated 1801, is addition to his first patent, described and illustrated a three-cylinder gasengine in which an explosive mixture of gas and air was to have been ignited by an electric spark. This is a curious control of the patents of the

ALABAMA has 2,118 factories, working 8,248 hands, with a capital invested of \$5,714,089, paying annually in wages \$3,297,968, and yielding annually in products \$18,040,644.

THE MOVING OF LARGE MASSES.

THE MOVING OF LARGE MASSES.*

The moving of a belfry was effected in 1776 by a mason who knew neither how to read nor write. This structure was, and still is, at Crescentino, upon the left bank of the Po, between Turin and Cazal. The following is the official report on the operation:

"In the year 1776, on the second day of September, the ordinary council was convoked, . . . as it is well known that, on the 26th of May last, there was effected the removal of a belfry, 7 trabucs (23.5 m.) or more in height, from the church called Madonas die Pulsasse, with the concurrence and in the presence and amid the applause of numerous people of this city and of strangers who had come in order to be witnesses of the removal of the said tower with its base and entire form, by means of the processes of our fellow-citizen Serra, a master mason who took it upon himself to move the said belfry to a distance of 8 meters, and to annex it to a church in course of construction. In order to effect this removal, the four faces of the brick walls were first cut and opened at the base of the tower and on a level with the earth. Into the apertures from north to south, that is to say in the direction that the edifice was to take, there were introduced two large beams, and with these there ran parallel, external to the belfry and alongside of it, two other rows of beams of sufficient length and extent to form for the structure a bed over which it might be moved and placed in

by Mr. De Gregori, who, during his childhood, was a witness of the operation, and who endeavored to render the information given by the official account completer without being able to make the process much clearer.

In 1854 Mr. Victor Place moved overland, from Nineveh to Mosul, the winged buils that at present are in the Assyrian museum of the Louvre, and each of which weighs 32 tons. After carefully packing these in boxes in order to preserve them from shocks, Place laid them upon their side, having turned them over. by means of levers, against a sloping bank of earth that he afterward dug away in such a manner that the operation was performed without accident. He had had constructed an enormous car with axles 0.25 m. in diameter, and soliid wheels 0.8 m. in thickness (Fig. 2). Beneath the center of the box containing the built a trench was dug that ran up to the natural lever of the soil by an incline. This trench had a depth and width such that the car could run under the box while the latter was supported at two of its extremities by the banks. These latter were afterward gradually cut away until the box rested upon the car without shock. Six hundred men then manned the ropes and hauled the car with its load up to the level of the plain. These six hundred men were necessary throughout nearly the entire route over a plain that was but slightly broken and in which the ground presented but little consistency.

The route from Khorsabad to Mosul was about 18 kilo-

tency.

The route from Khorsabad to Mosul was about 18 kilo

course be sasy to take the converse view, and observe that engineering would have made little progress in modern times, but for the splendid resources which the discoveries of pure science have placed at her disposal, and which she has only had to adopt and utilize for her own purposes. But there is no need to quarrel over two opposite modes of sating the sane fact. There is need on the other hand that the fact itself should be fairly recognized and accepted, anney, that science may be locked upon as proposed to give a few dillestrations which will bring out and emphasize this truth.

We could scarcely find a better instance than is furnished to our hand in the sentence we have chosen for a text. No man ever worked with a more single hearted devotion to pure science—with a more absolute disregard of money or fame, as compared with knowledge—than Michael Faraday. Yet future ages will perhaps jodge that no stronger implies was ever given to the progress of industrial art, or to the advancement of the material interests of rankind, than the manner of the material interests of rankind, than the position which has almost all admit, it is destined to occupy in the future, in order to see how much we owe to Faraday's establishment of the connection between magnetism and electricity. That is one side of the question—the debt which art owes to science. But let us look at the other side also. Does science owe nothing to art? Will any one say that we should know as much as we do concerning the theory of the dynamo-electric motor, and the laws of electro-magnetism and electricity. That is one side of the question—the debt which art owes to science. But let us look at the other side also. Does science owe nothing to art? Will any one say that we should know as much as and the laws of electro-magnetism of property of the connecting the theory of the dynamo-electric motor, and the laws of electro-magnetism of power property of the connection of the connecting the control of pure science, and the law of chectro-magnetism of th

appliances necessary for the carrying on of the Besseme process.

This process itself, with all the momentous consequences mechanical, commercial, and economical, which it has entailed, might be brought forward as a witness on our side for it was almost completely worked out in the laborator before being submitted to actual practice. In this respect it stands in marked contrast to the earlier processe for the making of Iron and steel, which were developed, it is difficult to say how, in the forge or furnace itself, and amight the smoke and din of practical work. At the same time the experiments of Bessemer were for the most part carries out with a distinct eye to their future application in practice, and their value for our present purpose is therefor not so great. The same we believe may be said with regard to the great rival of the Bessemer converter, viz., the Siemens open hearth; although this forms in itself a beautiful application of the acientific doctrine that steel stands mid way, as regards proportion of carbon, between wrough iron and pig iron, and ought therefore to be obtainable by judicious mixture of the two. The basic process is the latest development, in this direction, of science as applied to metallurgy. Here, by simply giving a different chemical constitution to the clay lining of the converter, it is foun possible to eliminate phosphorus—an element which has successfully withstood the attack of the Bessemer system.



Fig. 1.—REMOVAL OF A BELFRY AT CRESCENTINO IN 1776.

oned."
A note communicated to the Academie des Sciences at its ession of May 9, 1831, added that the base of the belfry as 3.3 m. square. This permits us to estimate its weight a about 150 tons.

Fig. 1 shows the general aspect of the belfry with its lays. This is taken from an engraving published in 1844.

position in the new spot, where foundations of brick and lime had previously been prepared.

"Upon this plane there were afterward placed rollers 3½ inches in diameter, and, upon these latter, there was placed a second row of beams of the same length as the others. Into the castern and western apertures there were inserted, in cross-form, two beams of less length.

"In order to prevent the oscillation of the tower, the latter was supported by eight joists, two of these being placed on each side and joined at their bases, each with one of the four beams, and, at their apices, with the walls of the tower at about two-thirds of its height.

"The plane over which the edifice was to be rolled had an inclination of one inch. The belfry was hauled by three cables that wound around three capstans, each of which was actuated by ten men. The removal was effected in less than an hour.

"It should be remarked that during the operation the son of the mason Serra, standing in the belfry, continued to riop peals, the bells not having been taken out.

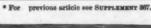
"Done at Crescentino, in the year and on the day mentioned."

A note communicated to the Academie des Sciences at its contact of the mason prevent the following passage: "Engineering brings all the detours that had to be made in order to have a somewhat firm roadway. It took made in order to have a somewhat firm roadway. It took made in order to have a somewhat firm roadway. It took made in order to have a somewhat firm roadway. It took the ground had acquired more compactness as a consequence of moving the first one over it, and since the ground had acquired more compactness as a consequence of moving the first one over the one over the the other one, since the ground had acquired more compactness as a consequence of moving the first one over the first one over the hold and acquired more compactness as a consequence of moving the first one over the first one over the hold and acquired more compactness as a consequence of moving the first one over the first one over the hold and

SUIENCE AND ENGINEERING.

In the address delivered by Mr. Westmacott, President of the Institution of Mechanical Engineers to the English and Belgian engineers assembled at Liege last August, there occurred the following passage: "Engineering brings all other sciences into play; chemical or physical discoveries, such as those of Faraday, would be of little practical use if engineers were not ready with mechanical applicances to carry them out, and make them commercially successful in the way best suited to each."

We have no objection to make to these words, spoken at such a time and before such an assembly. It would of





Fro. 2.-MOVING THE WINGED BULLS FROM NINEVEH TO MOSUL, IN 1854.

Section the would of a distract analysis of the new law in the control of the con

HYDRAULIC PLATE PRESS.

One of the most remarkable and interesting mechanical arrangements at the Imperial Navy Yard at Kiel, Germany, is the iron clad plate bending machine, by means of which the heavy iron clad plates are bent for the use of arming iron clad vessels.

Through the mechanism of this remarkable machine it is possible to bend the strongest and heaviest iron clad plates—in cold condition—so that they can be fitted close on to the ship's hull, as it was done with the man-of-war ships Saxonia, Bavaria, Wurtemberg, and Baden, each of which having an iron strength of about 250 meters.

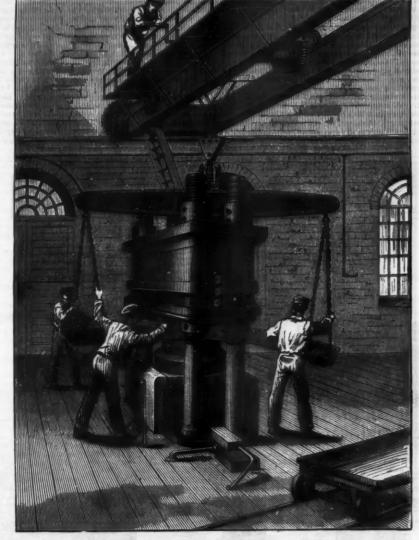
FAST PRINTING PRESS FOR ENGRAVINGS.

Uber Land und Meer, which is one of the finest illustrate waspapers published in Germany, gives the following the recently gave our readers an insight into the establishent of Uber Land und Meer, and to-day we show them to the cache week starts our paper on its journ round the world—a machine which embodies the latest a reatest progress in the art of printing. The following illustration represents one of the three fast presses which to ouse of Hallberger employs in the printing of its illustrationals.

With the invention of the cylinder press by Frederick

(first intended for newspaper work only, where speed rather than fine work is the object sought) to book printing, in which far greater accuracy and excellence in required, and the result has been the construction of a rotary press for the highest grade of illustrated periodical publications, which meets all the requirements with the most complete success. The building of rotary presses for printing illustrated meets all the requirements with the most complete success. The building of rotary presses for printing illustrated papers was attempted as early as 1974 or 1987 in London, by the Times, but apparently without success, as no public mention has ever been made of any favorable result. The proprietor of the London Metalest Mees obtained better results. In 1877 an illustrated penny paper, an outgrowth of his great journal, was printed upon a rotary press which was, according to his statement, constructed by a machinist named Middleton. The first one, however, did not at all meet the higher demands of illustrated periodical printing, and, while another machine constructed on the same principle was shown in the Paris Exposition of 1878, ils work was neither in quality nor quantity adequate to the needs of a largely circulated illustrated paper. A second machine, also on exhibition at the same time, designed and built by the celebrated French machinist, P. Alauset, could not be said to have attained the object. Its construction was undertaken long after the opening of the Exposition, and too inte to solve the weighty question. But the half-successful attempt gave promise that the time was at hand when a press could be built which could print our illustrated periodicals more rapidly, and a conference with the proprietors of the Augsburg Machine Works resulted in the production by them of the three presses from which Uber Load und Meer and Die Mustration was undertaken long and the result of mechanic and layman.

As seen in the illustration, the web of paper leaves the roll at the right, and passes through the out



IMPROVED HYDRAULIC PLATE PRESS.

One may make himself a proximate idea of the enormous power of pressure of such a machine, if he can imagine what a strength is needed to bend an iron plate of 250 me ters thickness, in cold condition; being also 175 meters in width, and 5 00 meters in length, and weighing about 14.555 kilogrammes, or 14.555 tons.

The bending of the plates is done as follows: As it is shown in the illustration, connected herewith, there are standing, well secured into the foundation, four perpendicular pillars, made of heavy iron, all of which are holding a heavy iron block, which by means of female nut screws is lifted and lowered in a perpendicular direction. Beneath the iron block, between the pillars, is lying a large hollow cylinder in which the press piston moves up and down in a perpendicular direction. These inovements are caused by a small machine, or, better, press pump—not noticeable in the illustration—which presses water from a reservoir through a narrow pipe into the large hollow cylinder, preventing at the same time the escape or return of the water so forced in. The hollow cylinder up to the press piston is now filled with water, so remains no other way for the piston as to move on to the top. The iron clad plate ready to undergo the bending process is lying between press piston and iron block; under the latter preparations are already made for the purpose of giving the iron clad plate such a form as it will receive through the bending process. After this the press piston will, with the greatest force, steadily but slowly move upward, until the iron clad plate has received its intended bending.

Lately the hydraulic presses are often used as winding

bending.

Lately the hydraulic presses are often used as wholing machines, that is, they are used as an arrangement to lift heavy loads up on elevated points.

The essential contrivance of a hydraulic press is as fol-

The essential contrivance of a hydraulic press is as follows:

One thinks of a powerful piston, which, through human, steam, or water power, is set in a moving up-and-down motion. Through the ascent of the piston, is by means of a drawing pipe, ending into a sieve, the water absorbed out of a reservoir, and by the lowering of the piston water is driven out of a cylinder by means of a narrow pipe (communication pipe) into a second cylinder, which raises a larger piston, the so-called press piston. (See illustration.)

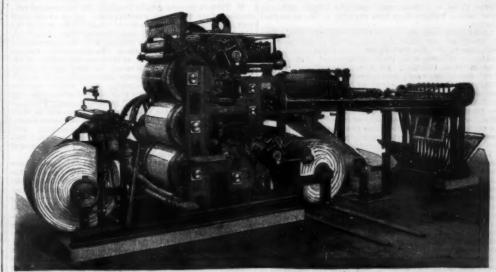
One on top opening drawing vulve, on the top end of the drawing pipe prevents the return of the water by the going down of the piston; and a barring valve, which is lifted by the lowering of the piston, obstructs the return of the water by the ascent of the piston, while the drawing valve is lifted by means of water absorbed by the small drawing pipe,—Illustrite Zeiting.

König was verified the saying that the art of printing had leat wings to words. Everywhere the primitive hand-press had to make way for the steam printing machine; but even this machine, since its advent in London in 1810, has itself undergone so many changes that little else remains of König's invention than the principle of the cylinder. The domands of recent times for still more rapid machines have resulted in the production of presses printing from a continuous roll or "web" of paper, from cylinders revolving in one given direction. The first of this class of presses (the "Bullock" press) was built in America. Then England followed, and there the first newspaper to make use of one was the Times. The Augsburg Machine Works were the first to supply Germany with them, and it was this establishment which first undertook to apply the principle of the web perfecting press

FRENCH CANNON.

FRENCH CANNON.

Five new cannons, the largest yet manufactured in France, have been successfully cast in the foundry of Ruelle near Anguleme. They are made of steel, and are breech loading. The weight of each is 97 toos, without the carriage. The projectile weighs 1,716 pounds, and the charge or powder is 616 pounds. To remove them a special wagon with sixteen wheels has had to be constructed, and the bridges upon the road from Ruelle to Anguleme not being solid enough to bear the weight of so heavy a load, a special roadway will be constructed for the transport of these weapons, which are destined for coast defences and ironclads.



IMPROVED FAST PRINTING PRESS FOR ENGRAVINGS.

WOODLANDS, STOKE POGIS, BUCKS.

The illustration represents a house recently reconstructed. The dining-room wing was alone left in the demolition of the old premises, and this part has been decorated with the racings, and otherwise altered to be in accordance with the new portion. The house is pleasantly situated about a mile from Bioke Church of historic fame, in about 15 acres of garden, shrubbery, and meadow land. The hall and staircase have been treated in wainscot oak, and the whole of the work has been satisfactorily carried out by Mr. G. Almond, builder, of Burnham, under the superintendence of Messrs. Thurlow & Crous, architects.—The Architect.

The following article appeared in a recent number of the London Times:

The subject of the cultivation and commercial utilization of the China grass plant, or rhea, has for many years occupied attention, the question being one of national importance, particularly as affecting India. Rhea which is also known under the name of ramie, is a textile plant which was indigenous to China and India. It is perennial, easy of cultivation, and produces a remarkably strong fiber. The problem of its cultivation has long being solved, for within certain limits rhee can be grown in any climate. India and the British colonies offer unusual facilities, and present vast and appropriate fields for that enterprise, while it can be, and is, grown in most European countries. All this has long been demonstrated; not so, however, the commercial utilization of the fiber, which up to the present time would be appropriate fields for that enterprise, while it can be, and is, grown in most European countries. All this has long been demonstrated; not so, however, the commercial utilization of the fiber is left adhering to the wood.

and pectose by a very simple process, obtaining the fiber clean, and free from all extraneous adherent matter, ready for the spinner.

In order, however, to insure as a result a perfectly uniform and marketable article, the Professor uses various chemicals at the several stages of the process. These, however, are not administered haphaxard, or by rule of thumb, as has been the case in some processes bearing in the same direction, and which have consequently failed, in the sense that they have not yet taken their places as commercial successes. The Professor, therefore, carefully examines the article which be has to treat, and, according to its nature and the scharacter of its components, he determines the proportions of the various chemicals which he introduces at the several data and the production of a fiber of uniform and reliable quality removed from the region of doubt into that of certainty. The two processes of M. Favier and M. Fremy have, therefore, been combined, and machinery has been put up in France on a scale sufficiently large to fairly approximate to practical working, and to demonstrate the practicability of the combined inventions.

The experimental works are situated in the Route d'Orleans, Grand Montrouge, just outside Paris, and a few days ago a series of demonstrations were given there by Messrs, as a series of demonstrations were given there by Messrs, and a series of demonstrations were given there by Messrs, and a few days ago a series of demonstrations were given there by Messrs, the demonstrations were given there by Messrs, and a few days ago a series of demonstrations were given there by Messrs, or the trials were carried out by M. Albert Alroy, under the supervision of M. Urbain, who is Professor Fremy's chief assistant and coputentee, and were attended by Dr. Forbes Watson, Mr. M. Collyer, Mr. C. J. Taylor, late member of the General Assembly, New Zealand, M. Barbe, M. Favier, Mr. G. Brogden, Mr. Caspar, and a number of other gentle.



appear to be a problem only partially solved, although many earnest workers have been engaged in the attempted

appear to be a problem only partially solved, although many earnest workers have been engaged in the attempted solution.

There have been difficulties in the way of decorticating the stems of this plant, and the Indian Government, in 1869, offered a reward of £5,000 for the best machine for separating the fiber from the stems and bark of rhea in its green or freshly cut state. The Indian Government was led to this step by the strong conviction, based upon ample evidence, that the only obstacle to the development of an extensive trade in this product was the want of suitable means for decordicating the plant. This was the third time within the present century that rhea had become the subject of official action on the part of the Government, the first effort or utilizing the plant dating from 1803, when Dr. Roxburg started the question, and the second from 1840, when attention was again directed to it by Colonel Jenkins.

The offer of £5,000, in 1869, led to only one machine being submitted for trial, although several competitors had entered their names. This machine was that of Mr. Greig, of Edinburgh, but after careful trial by General (then Lieutenant-Colonel) Hyde it was found that it did not fulfill the conditions laid down by the Government, and therefore the full prize of £5,000 was not awarded. In consideration, however, of the inventor having made a bona fide and meritorious attempt to solve the question, he was awarded a donation of £1,500. Other unsuccessful attempts were subsequently made, and eventually the offer of £5,000 was withdrawn by the Government.

But although the prize was withdrawn, invention did not cease, and the Government, in 1891, reoffered the prize of £5,000. Another competition took place, at which several machines were tried, but the trials, as before, proved barren

M. Favier's process greatly simplifies the commercial production of the fiber up to a certain point, for, at a very small cost, it gives the manufacturer the whole of the fiber in the plant treated. But it still stops short of what is, required, in that it delivers the fiber in ribbons, with its cementitious methods have been tried, but, as far as we are aware, without general success—that is to say, the fiber cannot always be obtained of such a uniformly good quality as to constitute a commercially reliable article. Such was the position of the question when, about a year ago, the whole case was submitted to the distinguished French chemist, Professor Fremy, member of the Institute of France, who is well-known for his researches into the nature of fibrous plants, and the question of their preparation for the market. Professor Fremy thoroughly investigated the matter from a chemical point of view, and at length brought it to a successify and, apparently, a practical issue.

One great har to previous success would appear to have the constituents of that portion of the plant which contains the fibro, or, in other words, the casing or bark surrounding the woody stem of the rhea. As determined by Professor, therefore, proceeded to carefully investigate the nature of these various substances, and in the results and having been reflected, the work of M. Favier cases, having been produced, the fiber in them has to be roughly investigate the nature of these various substances, and in the result of water of the condaining the thorac manufacturer. In the process were soluble in an alkali under certain conditions, and that the callulose were conditioned. The Frofessor, therefore, proceeded to carefully investigate the nature of these various substances, and in the result of the process is carried on a few minutes of the process is carried on a few minutes of the process of the cutors, or other works of M. Fravier cases, have an effected, the work of M. Fravier ceases, having been reflected, the work of M. Fravier ceases,

Within the cylinder is a steam coil for heating the water, and, steam having been turned on, the temperature is raised to a certain point, when the cylinder is closed and made steam-tight. The process of boiling is continued under pressure until the temperature—and consequently the steam pressure—within the cylinder has attained a high degree.

On the completion of this part of the process, which occupies about four hours, and upon which the success of the whole mainly depends, the cementitious matter surrounding the fiber is found to have been transformed into a substance easily dissolved. The fibrous mass is then removed to a centrifugal machine, in which it is quickly deprived of its surplus alkaline moisture, and it is then placed in a weak solution of hydrochloric acid for a short time. It is then transferred to a bath of pure cold water, in which it remains for about an hour, and it is subsequently placed for a short time in a weak acid bath, after which it is again washed in cold water, and dried for the market. Such are the processes by which China grass may become a source of profit alike to the cultivator and the spinner. A factory situate at Louviers has been acquired, where there is machinery already erected for preparing the fiber according to the processes we have described, at the rate of one ton per day. There is also machinery for spinning the fiber into yarns. These works were also visited by those gentlemen who were at the experimental works at Montrouge, and who also visited the Government laboratory in Paris, of which Professor Fremy is chief and M. Urbain sous-chef, and where those gentlemen explained the details of their process and made their visitors familiar with the progressive steps of their investigations.

With regard to the rhea treated at Montrouge, we may observe that it was grown at La Reolle, near Bordeaux. Some special experiments were also carried ont by Dr. Forbes Watson with some rhea grown by the Duke of Wellington at Stratfield-saye, his Grace having taken an active inte

vantage.

This question has often presented itself as one of the points to be determined, and advantage has been taken of the present opportunity with a view to the solution of the question. Mr. C. J. Taylor also took with him a sample of New Zealand flax, which was successfully treated by the process. On the whole, the conclusion is that the results of the combined processes, so far as they have gone, are eminently satisfactory, and justify the expectation that a large enterprise in the cultivation and utilization of China grass is on the eve of being opened up, not only in India and our colonies, but possibly also much nearer home.

APPARATUS FOR HEATING BY GAS.

Thus new heating apparatus consists of a cast iron box, E, provided with an inclined cover, F, into which are fixed 100 copper tubes that are arranged in several lines, and form a semi-cylindrical heating surface. The box, E, is divided into two compartments (Fig. 5), so that the air and gas may

enter simultaneously either one or both of the compartments, according to the quantity of heat it is desired to have. Regulation is effected by means of the keys, G and G', which open the gas conduits of the solid and movable disk, H, which serves as a regulator for distributing air through the two compartments. This disk revolves by hand and may be closed or opened by means of a screw to which it is fixed.

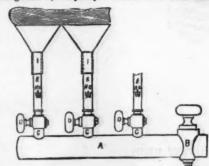
Beneath the tubes that serve to burn the mixture of air and gas, there is placed a metallic gauze, I, the object of which is to prevent the flames from entering the fire place box. Those tubes traverse a sheet iron piece, J, which forms the surface of the fire place, and are covered with a layer of asbestos flaments that serve to increase the calorific power of the apparatus.

The cast iron box, E, is inclosed within a base of refractory clay, L, which is surmounted by a reflector, M, of the same material, that is designed to concentrate the heat and increase its radiation. This reflector terminates above in a dome, in whose center is placed a refractory clay box. This latter, which is round, is provided in the center with a cylinder that is closed above. The box contains a large number of apertures, which give passage to the products of combustion carried along by the hot air. The carbonic acid which such products contain is absorbed by a layer of quick-lime that has previously been introduced into the box, N.

This heating apparatus, which is inclosed within a cast iron casing similar to that of an ordinary gas stove, is employed without a chimney, thus permitting of its being placed against the wall or at any other point whatever in the room to be heated.—Annales Industricites.

IMPROVED GAS BURNER FOR SINGEING MACHINES.

Since the introduction of the process of gas-singeing in finishing textiles, many improvements have been made in



the construction of the machines for this purpose as well as in that of the burners, for the object of the latter must be to effect the singeing not only evenly and thoroughly, but at the same time with a complete combustion of the gas and

avoldance of sooty deposits upon the cloth. The latter object is attained by what are called atmospheric or Bunsen burners, and in which the coal gas before burning is mixed with the necessary amount of atmospheric air. The arrangement under consideration, patented abroad, has this object specially in view. The main gas pipe of the machine is shown at A, being a copper pipe closed at one end and having a tap at the other. On this pipe the vertical pipes, C, are screwed at stated intervals, each being in its turn provided with a tap near its base. On the top of each vertical table the burner, IJ, is placed, whose upper end spreads in the shape of a fan, and allows the gas to escape through a silt or a number of minute holes. Over the tube, C, a mantle, E, is slipped, which contains two holes, HG, on opposite sides, and made nearly at the height of the outlet of the gas. When the gas passes out of this and upward into the burner, it induces a current of air up through the holes, HG, and carries it along with it. By covering these holes with a loose adjustable collar, the amount of admissible air can be regulated so that the fiame is perfectly non-luminous, and therefore containing no free particles of carbon or soot. The distance of the vertical tubes, C, and of the fan-shaped burners is calculated so that the latter touch each other, and thus a continuous flame is formed, which is found to be the most effective for singeing cloth. Should it be deemed advisable to singe only part of the cloth, or a narrow piece, the arrangement admits of the taps, D, being turned off as desired.—Textile Manufacturer.

SILAS' CHRONOPHORE.

In many industries there are operations that have to be repeated at regular intervals, and, for this reason, the con-struction of an apparatus for giving a signal, not only at the



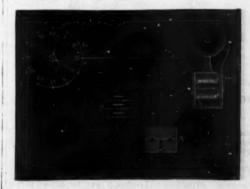
Fig. 1.—SILAS' CHRONOPHORE

bour fixed, but also at equal intervals, is a matter of interest. The question of doing this has been solved in a very elegant way by Mr. Silas in the invention of the apparatus which we represent in Fig. 1. It consists of a clock whose dial is provided with a series of small pins. The hands are insulated from the case and communicate with one of the poles of a pile contained in the box. The case is connected with the other pole. A small vibrating bell is interposed in the circuit. If it be desired to obtain a signal at a certain hour, the corresponding pin is inserted, and the hand upon touching this closes the circuit, and the bell rings.



Frg. 2.

The bell is likewise inclosed within the box. There are two rows of pins—one of them for hours, and the other for minutes. They are spaced according to requirements. In the model exhibited by the house Breguet, at the Vienna Exhibition, there were 24 pins for minutes and 12 for hours. Fig. 2 gives a section of the dial. It will be seen that the hands are provided at the extremity with a small spring, r, which is itself provided with a small platinum contact, p, The pins also carry a small platinum or silver point, a. In front of the box there will be observed a small commutator, M,(Fig. 1). The use of this is indicated in the di-



agram (Fig. 3). It will be seen that, according as the plug, B, is introduced into the aperture to the left or right, the bell. S, will operate as an ordinary vibrator, or give but a

beit. S, will operate single stroke.

P is the pile; C is the dial; and A is the commutator.
P is the pile; C is the dial; and A is the commutator.
It is evident that this apparatus will likewise be able to render services in scientific researches and laboratory operations, by sparing the operator the trouble of continually consulting his watch.—La Lumiere Electrique.

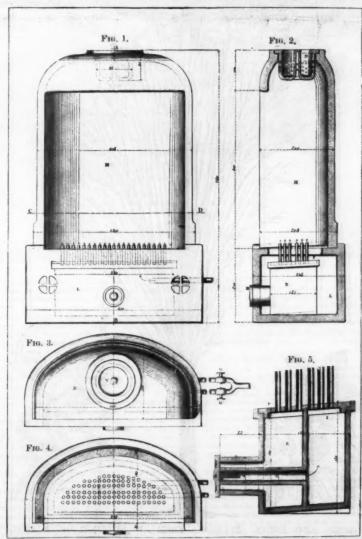


Fig. 1.—Front View. Scale of 0.25 to 1. Fig. 2.—Section through A.B. Fig. 3.—Plan View. Fig. 4.—Section through C.D. Fig. 5.—Transverse Section through the Fireplace. Scale of 0.50 to 1.

GOMEZ'S APPARATUS FOR HEATING BY GAS.

PTHE GARDEN, 1 THE ZELKOWAS.

Two of the three species which form the subject of this article are not only highly ornamental, but also valuable

its leaves are never devoured by caterpillars, and that the stems are not subject to the canker which frequently ruins the elm. The name Orme de Siterie, which is or was com-monly applied to Zelkova crenta in French books and gardens, is doubly wrong, for the tree is neither an elm nor

"Having left Ispahan, in order to explore the province of Ghilan, he found this tree in the forests which he traversed before arriving at Recht, a town situated on the Caspian Sea. In this town he had opportunities of remarking the use made of the wood, and of judging how highly it was appreciated by the inhabitants." The first tree introduced into Europe appears to have been planted by M. Lemonnier, Professor of Botany in the Jardin des Plantes, etc., in his garden near Versailles. This garden was destroyed in 1820, and the dimensions of the tree when it was cut down were as follows: Height 70 feet, trunk 7 feet in circumference at 5 feet from the ground. The bole of the trunk was 20 feet in length and of nearly uniform thickness; and the proportion of heart-wood to sap-wood was about three quarters of its diameter. This tree was about fifty years old, but was still in a growing state and in vigorous health. The oldest tree existing in France at the time of the publication of Loudon's great work, was one in the Jardin des Plantes, which in 1831 was about 60 feet high. It was planted in 1786 (when a sucker of four years old), about the same time as the limes which form the grand avenue called the Allee de Buffon. "There is, however, a much larger Zeikowa on



FLOWERING TWIG OF PLANERA GMELINI.

an estate of M. le Comte de Dijon, an enthusiastic planter of exotic trees, at Podenas, near Nerac, in the department of the Lot et Garonne. This fine tree was planted in 1789, and on the 20th of January, 1831, it measured nearly 80 feet high, and the trunk was nearly 3 feet in diameter at 3 feet from the ground." A drawing of this tree, made by the count in the autumn of that year, was lent to Loudon by Michaux, and the engraving prepared from that sketch (on a scale of 1 inch to 12 feet) is herewith reproduced. At Kew the largest tree is one near the herbarium (a larger one had to be cut down when the herbarium was enlarged some years ago, and a section of the trunk is exhibited in Museum No. 3). Its present dimensions are: height. 62 feet; circumference of stem at 1 foot from the ground, 9 feet 8 inches; ditto at ground level, 10 feet; theight of stem from ground to branches, 7 feet; diameter of head, 46 feet. The general habit of the tree is quite that as represented in the engraving of the specimen at Podenas. The measurements of the large tree at Syon House were, in 1834, according to Loudon: Height, 54 feet; circumference of of stem, 6 feet 9 inches; and diameter of head, 34 feet; the present dimensions, for which I am indebted to Mr. Wood-



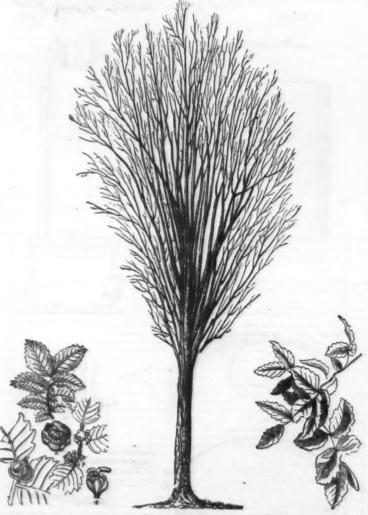
YOUNG ZELKOWA TREE (21 FEET HIGH)

timber trees. Until recently they were considered to belong to the genus Planera, which, however, consists of but a single New World species; now, they properly constitute a distinct genus, viz., Zelkova, which differs materially from the true Planer tree in the structure of the fruit, etc. Z. crenata, from the Caucasus, and Z. acuminata, from Japan, are quick growing, handsome trees, with smooth bark not unlike that of beech or hornbeam; it is only when the trees are old that the bark is cast off in rather large sized plates, as is the case with the planes. The habit of both is somewhat peculiar; in Z. crenata especially there is a decided tendency for all the main branches to be given off from one point; these, too, do not spread, as for instance do those of the elm or beech, but each forms an acute angle with the center of the tree. The trunks are more columnar than those of almost all other hardy trees. Their distinct and graceful habit renders them wonderfully well adapted for planting for effect, either singly or in groups. The flowers, like those of the elm, are produced before the leaves are developed; in color they are greenish brown, and smell like



FOLIAGE OF A YOUNG ZELKOWA TREE, WITH FLOWERS AND FRUIT.

those of the elder. It does not appear that fruits have yet been ripened in England. All the Zelkowas are easily propagated by layers or by grafting on the common elm Zelkowa crenata—The Caucasian Zelkowa is a native of the country lying between the Black and the Caspian Senbetween Intitudes 35° and 47° of the north of Persia and Georgia. According to Loudon, it was introduced to this country in 1760, and it appears to have been planted both at Kew and Syon at about that date. A very full account of the history, etc., of the Zelkowa, from which Loudon largely quotes, was presented to the French Academy of Science by Michaux the younger, who speaks highly of the value of the tree. In this he is fully corroborated by Mirbel and Desfontaine, on whom devolved the duty of reporting on this memoir. They say that it attains a size equal to that of the largest trees of French forests, and recommend its being largely planted. They particularly mention its suitability for roadside avenues, and affirm that



AND FRUIT FLOWERS OF ZELKOVA CRENA-

ZELKOWA TREE AT FOLIAGE OF A FUL PODENAS, GROWN ZELKOWA PODENAS, TREE.

peculiar habit of boold trees the effect ble in winter, as a realities (Petil Tvi

bridge, are: Height, 76 feet; girth of trunk at 2½ feet from ground, 10 feet; spread of branches, 36 feet.

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Indigen are: Height, 76 feet; girth of trunk at 2½ feet from ground, 10 feet.

Indigen are: Height, 76 feet; girth of trunk at 24 feet.

Indigen are: Height, 26 feet; and 16 feet.

Indigen are: Height, 26 feet.

are quickly told from the higher orders—true spiders and scorpions—by their rounded bodies, which appear like mere sacks, with little appearance of segmentation, and their small, obscure heads. The mites alone, of all the Arachvida, pass through a marked metamorphosis. Thus the young mite has only six legs, while the mature form has eight. The bee mite is very small, not more than one-fittleth of an inch long. The female is slightly longer than the male, and somewhat transparent areas of the female appear yellowish. All the legs are fine jointed, slightly hairy, and each tipped with two hooks or claws."

As to remedies, the Professor says that as what would kill the mites would doubless kill the bees, makes the question a difficult one. He suggests, however, the frequent changing of the bees from one hive to another, after which the empted hives should be thoroughly scalded. He thinks this course of treatment, persisted in, would effectually elean them out.

CRYSTALLIZATION OF HONEY.

To the Editor of the Scientific American :

To the Editor of the Scientific American:

Seeing in your issue of October 13, 1893, an article on "Crystallization in Extracted Honey," I heg leave to differ a little with the gentleman. I have handled honey as an apiarist and dealer for ten years, and find by actual experience that it has no tendency to crystallize in warm weather; but on the contrary it will crystallize in warm weather; and the colder the weather the harder the honey will get. I have had colonies of bees starve when there was plenty of honey in the hives; it was in extreme cold weather, there was not enough animal heat in the bees to keep the honey from solidifying, hence the starvation of the colonies.

To-day I removed with a thin paddle sixty pounds of honey from a large stone jar where it had remained over one year. Last winter it was so solid from crystallization, it could not be cut with a knife; in fact, I broke a large, heavy knife in attempting to remove a small quantity.

As to honey becoming worthless from candying is a new idea to me, as I have, whenever I wanted our crystallized honey in liquid form, treated it to water bath, thereby bringing it to its natural state, in which condition it would remain for an indefinite time, especially if hermetically sealed. I never had any recrystallize after once having been treated to the water bath; and the flavor of the honey was in no way injured. I think the adding of glycerine to be entirely superfluous.

W. R. Miller.

W. R. MILLER.

AN EXTENSIVE SHEEP RANGE.

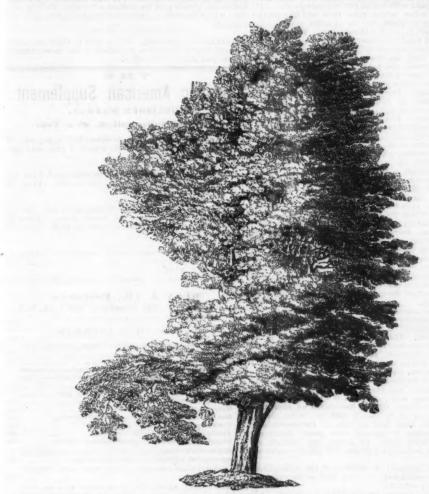
AN EXTENSIVE SHEEP RANGE.

The little schooner Santa Rosa arrived in port from Santa Barbara a few days ago. She comes up to this city twice a year to secure provisions, clothing, lumber, etc., for use on Santa Rosa Island, being owned by the great sheep raiser A. P. Moore, who owns the island and the 80,000 sheep that exist upon it. The island is about 30 miles south of Santa Barbara, and is 24 miles in length and 16 in breadth, and contains about 74,000 acres of land, which are admirably adapted to sheep raising. Last June, Moore clipped 1,014 sacks of wool from these sheep, each ack containing an average of 410 pounds of wool, making a total of 415,740 pounds, which he sold at 27 cents a pound, bringing him in \$112,349.80, or a clear profit of over \$80,000. This is said to be a low yield, so it is evident that sheep raising there, when taking into consideration that shearing takes place twice a year, and that a profit is made off the sale of mutton, etc., is very profitable. The island is divided into four quarters by fences running clear across at right angles, and the sheep do not have to be herded like those ranging about the footbills.

Four men are employed regularly the year round to keep the sence in order and the sheep and devices and to look ofter the sales and device.

the foothills.

Four men are employed regularly the year round to keep the ranch in order, and to look after the sheep, and during the shearing time fifty or more shearers are employed. These men secure forty or fifty days' work, and the average number of sheep sheared in a day is about ninety, for which five cents a clip is paid, thus \$4.50 a day being made by each man, or something over \$200 for the season, or over \$400 for ninety days out of the year. Although the shearing of ninety sheep in a day is the average, a great many will go as high as 110, and one man has been known to shear 125.



OLD SPECIMEN OF ZELKOWA TREE IN SUMMER FOLIAGE, CONCEALING FORM OF BRANCHING.

ciduous tree, discovered near Yeddo by Mr. J. G. Veitch, 90 feet to 100 feet in height, with a remarkably straight stem. In aspect it resembles an elm. We understand that a plank in the Exotic Nursery, where it has been raised, measures 3 feet 3 inches across. Mr. Veitch informs us that it is one of the most useful timber trees in Japan. Its long, taper-pointed leaves, with coarse, very sharp serratures, appear to distinguish it satisfactorily from the P. Richardi of the northwest of Asia." There seems to be no doubt as to the perfect hardiness of the Japanese Zeikowa in Britain, and it is decidedly well worth growing as an ornamental tree apart from its probable value as a timber producer. A correspondent in the periodical just mentioned writes, in 1873, p. 1142, under the signature of "C, P." "At Stewkley Grange it does fairly well; better than most other trees. In a very exposed situation it grew 3 feet 5 inches last year, and was 14 feet 5 inches high when I measured it in November; girth at ground, 3½ inches; at 3 feet, 5 inches." The leaves vary in size a good deal on the short twigxy branches, being from 3 inches to 3½ inches in length and 1½ inches to 1½ inches in width, while those on vigorous shoots attain a length of 5 inches, with a width of about half the length. They are slightly hairy on both surfaces. The long acuminate points, the sharper serratures, the more numerous nerves (aine to fourteen in number), and the more papery texture distinguish Z acuminata easily from its Caucasian relative, Z. crenata. The foliage, too, seems to be retained on the trees in autumn longer than that the length. They are slightly hairy on both surfaces. The long acuminate points, the sharper serratures, the more numerous nerves (aine to fourteen in number), and the more papery texture distinguish Z acuminata easily from its Caucasian relative, Z. crenata. The foliage, too, seems to be retained on the trees in autumn longer than that of the species just named; in colorit is a duil green above and a brighter glossy g

R FOLIAGE, CONCEALING FORM OF BRANCHING.

304; Planch. in Ann. des Sc. Nat. 1848, p. 289. Abelicas and, owing to haste, frequently the animals are severely cut by the sharp sheers. If the wound is servine, the ninespecial content of the plant of the pl

one of these ranches has a sailing vessel to carry freight, etc., to and fro between the islands and the mainland, and they are kept busy the greater part of the time.—San Brancisco Call.

THE DISINFECTION OF THE ATMOSPHERE.

THE DISINFECTION OF THE ATMOSPHERE.

At the Parkes Museum of Hygiene, London, Dr. Robert J. Lee recently delivered a lecture on the above subject, illustrated by experiments.

The author remarked that he could not better open up his theme than by explaining what was meant by disinfection. He would do so by an illustration from Greek literature. When Achilles had sian Hector, the body still lay on the plain of Troy for twelve days after; the god Hermes found it there and went and told of it—"This, the twelfth evening since he rested, untouched by worms, untainted by the air." The Greek word for taint in this sense was sepsis, which meant putrefaction, and from this we had the term "autiseptic," or that which was opposed to or prevented putrefaction. The lecturer continued:

I have here in a test tube some water in which a small piece of meat was placed a few days ago. The test tube has been in rather a warm room, and the meat has begun to decompose. What has here taken place is the first step in this inquiry. This has been the question at which acientific men have been working, and from the study of which has come a valuable addition to surgical knowledge associated with the name of Professor Lister, and known as antiseptic. What happens to this meat, and what is going on in the water which surrounds it? How long will it be before all the smell of putrefaction has gone and the water is clear again? For it does in time become clear, and instead of the meat we find a fine powdery substance at the bottom of the test tube. It may take weeks before this process is completed, depending on the rate at which it goes on. Now, if we take a drop of this water and examine it with the microscope, we find that it contains vast numbers of very small living creatures or "organisma." They belong to the lowest forms of life, and are of very simple shape, either very delicate narrow threads or rods or globular bodies. The former are called bacteria, or staff-like bodies; the latter, micrococci. They live upon the meat, and only di

or rods or globular bodies. The former are called bacteria, or staff-like bodies; the latter, micrococci. They live upon the meat, and only disappear when the meat is consumed. Then, as they die and fall to the bottom of the test tube, the water clears again.

Supposing now, when the meat is first put into water, the water is made to boil, and while boiling a piece of cotton wool is put into the mouth of the tube. The tube may be kept in the same room, at the same temperature as the unboiled one, but no signs of decomposition will be found, however long we keep it. The cotton wool prevents it; for we may boil the water with the meat in it, but it would not be long before bacteria and micrococci are present if the wool is not put in the mouth of the test tube. The conclusion you would naturally draw from this simple but very important experiment is that the wool must have some effect upon the air, for we know well that if we keep the air out we can preserve meat from decomposing. That is the principle upon which preserved meats and fruits are prepared. We should at once conclude that the bacteria and micrococci must exist in the air, perhaps not in the state in which we find them in the water, but that their germs or eggs are floating in the atmosphere. How full the air may be of these germs was first shown by Professor Tyndall, when he sent a ray of electric light through a dark chamber, and as if by a magician's wand revealed the multifulfning to contempiate how one branch of scientific knowledge may assist another; and we would hardly have imagined that the beam of the electric light through a dark chamber, and as if by a magician's wand revealed the success of some great operation may depend. It is thus easy to understand how great an importance is to be attached to the purity of air in which we live. This is the practical use of the researches to which he act of surgery is so much indebted; and not surgery alone, but all mankind in greater or less degree. Professor Tyndall has gone further than this, and ha as a gum or a resin, will rot and decay. I am not sure that we can give a satisfactory reason for this, but it is certain that all these substances act as antiseptics by destroying the living organisms which are the cause of putrefaction. Some are fragrant coils, as, for example, clove, santal, and thyme; others are fragrant gums, such as gum bezoin and myrrh. A large class are the various kinds of turpentine obtained from pine trees. We obtain carbolic acid from the coal tarlargely produced in the manufacture of gas. Both wood tar, well known under the name of creosote, and coal tarlargely produced in the manufacture of gas. Both wood tar, well known under the name of creosote, and coal tarlargely produced in the moderation by what means meat and fish are preserved from decomposition when they have been kept in the smoke of a wood fire. The smoke contains creosote in the form of vapor, and the same effect is produced on the meat or fish by the snoke as if they had been dipped in a solution of tar—with this difference, that they are dried by the smoke, whereas moisture favors decomposition very greatly.

I can show why a fire from which there is much smoke is better than one which burns with a clear flame, by a simple experiment. Here is a piece of gum benzoin, the substance from which Priar's balsam is made. This will burn, if we light it, just as tar burns, and without much smoke or smell. If, instead of burning it, we put some on a spoon and heat it gently, much more smoke is produced, and a fragrant scent flower of the solutions of anilline dyes for staining bacteria, and having for some months used solutions of anilline dyes for staining bacteria, and having for some months used solutions of anilline dependence on the nate is a scent of the action. There is, more warious precipitation well instead of the season of the solutions of anilline dependence of the action from vexitions for an endeancy precipitation of the solutions of anilline dependence of the later. From them in breath of the same and the later

vapor, so that the one may mix with the other, just as when we are dealing with fluids we must use a fluid disin-

vapor, so that the one may mix with the other, just as when we are dealing with fluids we must use a fluid disinfectant.

The question that presents itself is this: Can we so diffuse the vapor of an antiseptic like carbolic acid through the air as to destroy the germs which are floating in it, and thus purify it, making it like air which has been filtered through wood, or like that on the top of a lofty mountain? If the smoke of a wood fire seems to act as an antiseptic, and purefaction is prevented, it seems reasonable to conclude that air could be purified and made antiseptic by some proper and convenient arrangement. Let us endeavor to test this by a few experiments.

Here is a largo tribe 6 inches across and 2 feet long, fixed just above a small tin vessel in which we can boil water and keep it bolling as long as we please. If we fill the vessel with carbolic acid and water and boil it very gently, the steam which rises will ascend and fill the tube with a vapor which is strong or weak in carbolic acid, according as we plant on corally a colinousy countaining an antiseptic vapor, very much the same thing as the smoke of a wood fire. We must be able to keep the water boiling, for the experiment may have to be continued during several days, and during this time must be neither stronger nor weaker in carbolic acid, neither warmer nor colder than a certain temperature. This chimmey must be always at the same beat, and the fire must include the plant of the plant

carbolic acid can be used at will, and will afford a series of lests.

There are other methods of disinfecting the atmosphere which we cannot consider this evening, such as the very potent one of burning sulphur.

In conclusion, the lecturer remarked that his lecture had been cast into a suggestive form, so as to set his audience thinking over the causes which make the air impure, and how these impurities are to be prevented from becoming deleterious to health.

A NEW METHOD OF STAINING BACILLUS TUBERCULOSIS.

By T. J. BURRILL, M.D., Champaign, Ill.

room, half an hour. If, however, quicker results are desired, boil a little water in a test tube and put in about double the above indicated amount of the glycerine mixture, letting it run down the side of the tube, gently shake until absorbed, and pour out the hot liquid into a convenient dish, and at once put in the cover with sputum. Without further attention to the temperature the stain will be effected within two minutes; but the result is not quite so good, especially for permanent mounts, as by the elower processe.

After staining put the cover into nitric (or hydrochloric) id and water, one part to four, until decolorized, say the minute; wash in water and examine, or dry and mount

in balsam.

If it is desired to color the ground material, which is not necessary, put on the decolorized and washed glass a drop of aniline blue in glycerine; after one minute wash again in water and proceed as before.

Almost any objective, from one-fourth inch up will show the bacilli if sufficient attention is paid to the illumination.—Med. Record.

CURE FOR HEMORRHOIDS.

"The carbolic acid treatment of hemorrhoids is now receiving considerable attention. Hence the reprint from the Pittaburgh Medical Journal, November, 1883, of an article on the subject by Dr. George H. Fundenberg is both timely and interesting. After relating six cases, the author says: "It would serve no useful purpose to increase this list of cases. The large number I have on record all prove that this treatment is safe and effectual. I believe that the great majority of cases can be cured in this manner. Whoever doubts this should give the method a fair trial, for it is only those who have done so, that are entitled to speak upon the question."

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